CLAIMS

I claim:

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- 1. An apparatus for detecting generated sparks, where an electrical power means supplies power to a spark generating means and where the electrical power supplied by the electrical power means to the spark generating means is detected by a sensor means so as to produce an output that is related to the occurrence of generated sparks.
- 2. The apparatus of Claim 1 wherein the generated sparks are used to ignite fuel inside a spark-ignited internal combustion engine.
- 10 3. The apparatus of Claim 1 wherein the output of the sensor means is transmitted to a computing means so as to provide diagnostic information.
 - 4. The apparatus of Claim 1 wherein the sensor means includes the electronic circuitry shown in the box labeled "SENSOR MEANS" in Figure 1.
- 5. A method for detecting generated sparks, where an electrical power means
 supplies power to a spark generating means and where the electrical power
 supplied by the electrical power means to the spark generating means is
 detected by a sensor means so as to produce an output that is related to the
 occurrence of generated sparks.
 - 6. The method of Claim 1 wherein the generated sparks are used to ignite fuel inside a spark-ignited internal combustion engine.
 - 7. The method of Claim 1 wherein the output of the sensor means is transmitted to a computing means so as to provide diagnostic information.